

ARTICLE 1703

National Electrical Code

- 1703.01 Adoption.
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CROSS REFERENCES

Adoption by reference - See 3rd Class Charter Law §608(a)
[53 P.S. §41608(a)]; 3rd Class §2403(67) [53 P.S. §37403(67)]
Swimming pool wiring - See BLDG. Art. 1711
Electrical system - See BLDG. Art. 1733

1703.01 ADOPTION.

That certain documents, viz, the 2000 (First Edition) ICC Electrical Code of the International Code Council be adopted as the official Electrical Code of the City of Bethlehem, in accordance with the provisions of Section 4131 of the Third Class City Code, (Purdons 53 PS 39131) with the changes and amendments noted hereinafter, for the all buildings and structures of the City of Bethlehem providing for the issuance of permits and the collection of fees therefore, providing penalties for violations of such code, and each and all of the regulations, provisions, conditions, and terms of the ICC Electrical Code, 2000 Edition, as amended, are hereby referred to, adopted, and made a part hereof as is fully set forth in this ordinance, with the changes and amendments noted hereinafter.

1703.02 ADDITION AND MODIFICATIONS.

Additions and deletions to the 2000 ICC Electrical Code are as follows:

Add 301.3.1 Electrical Inspector

The Electrical Inspector shall be a person who has passed a competitive examination given by the City of Bethlehem, Pennsylvania and appointed by the head of the department to which the Bureau of Inspections is administratively

repairing wiring and appliances for electric light, heat, and power within the City of Bethlehem, and to provide for the licensing of all persons who engage in such business. The purpose of this licensing procedure is to foster the safety of those who reside, work or visit in the City of Bethlehem. This licensing procedure shall not be construed in such a manner as to provide artificial and unnecessary barriers to the conduct of electrical work by firms located both inside and outside of the City limits. Telecommunication installations, outside of this scope shall be covered by Section 1703.02 A5 of this Code.

(b) Definitions

For the purposes of this article the following definitions shall apply:

- (1) Master Electrician shall mean any person, or employee of a proprietorship, partnership, or corporation who, within the City of Bethlehem, engages in or carries on the business of installing, erecting, altering, extending, maintaining, or repairing electrical wiring, apparatus, fixtures, devices, appliances, or equipment utilized or designated for the utilization of electricity for light, heat, or power purposes or for signaling systems, and who carries on such business as an independent contractor or employee of a proprietorship, partnership or corporation and who has the final determination and the full responsibility for the manner in which the work is done, for the materials used and for the selection, supervision and control of Journeyman Electricians and apprentices employed on the work engaged in by said person, proprietorship, partnership, or corporation.
- (2) Master Electrician's License shall mean a license issued to a Master Electrician as herein defined, who, by passing the required examination and tests, has qualified as a competent person to be a Master Electrician.
- (3) Residential Electrician shall mean any person, or an employee of a proprietorship, partnership or corporation who, within the City of Bethlehem, engages in or carries on the business of installing, erecting, altering, extending, maintaining or

Such licensed electrician shall be restricted to residential electrical work in one (1) and two (2) family dwelling and dwelling units. Work may not be performed in non-residential buildings nor in mixed-use buildings where a single electrical service is utilized for the entire building. Residential electricians are restricted to the installation of 200 amp single phase services or less and in buildings of not more than three (3) stories.

- (4) Residential Electrician's License shall mean a license issued to a Residential Electrician as herein defined, who, by passing the required examination and tests, has qualified as a competent person to be a Residential Electrician.
- (5) Journeyman Electrician shall mean any person who shall have passed the Journeyman Electrician's examination and qualified and registered in accordance with the terms of this article and under the rules and regulations of the said Examining Board, and one who is the holder of a Journeyman Electrician's License and is employed as defined in the definition of Master Electrician.
- (6) Journeyman Electrician's License shall mean a license issued to a Journeyman Electrician as herein defined, who, by passing the required examination and tests, has qualified as a competent person to be a Journeyman Electrician.
- (7) Special Electrician shall mean any person, who installs, alters or repairs electrical wiring, appliances for heat, light, power, and or signaling systems in or on buildings or lots in the City, and who is an employee of a proprietorship, partnership or corporation which owns, leases, or manages a building, buildings, or parts thereon situated in the City of Bethlehem. The Special Electrician so employed shall be authorized to determine the method of doing the electrical work the materials to be used and the persons to be employed on such work.
- (8) Special Electrician's License shall mean a license issued to a Special Electrician as herein defined who, by passing the

the full responsibility for the manner in which the work is done, for the material used and for the selection, supervision, and control of any persons employed on the work engaged in by said proprietorship, partnership or corporation.

Such licensed installer shall be limited to the installation only of, circuit and control wiring and connection to motors rated not in excess of five (5) horsepower, heating equipment loads not in excess of ten (10) KW and sign equipment loads not in excess of two and one-half (2-1/2) KW. When necessary to alter or increase service board equipment, service feeders, or distribution to accommodate any additional light, heat, or power loads, such changes shall be performed by a registered Master Electrician or Residential Electrician, as appropriate.

- (10) Electrical Appliance Installer's License shall mean a license issued to an Electrical Appliance Installer, who, by passing the required examinations and tests has qualified as a competent person to be an Electrical Appliance Installer.
- (11) Items covered defined - "Materials, "Electrical" or "Electrical Work", "Electrical materials", "Electrical Appliances" and "Electrical Fixtures" shall mean and include all electrical apparatus, electrical appliances, electric wiring, electrical fixtures, and all electrical supplies of whatever kind or nature used as a part of any installation for the transmission or consumption of electrical energy, including the electrical installation and apparatus used in a connection with and adjunctive to heating, cooking plumbing, ventilating and refrigerating equipment, display and advertising signs and water heaters, provided, however, said terms shall not include incandescent lamps, domestic electrical appliances severable from the freehold without material damage thereto.
- (12) Public Services Corporation - This code shall not apply to the following: electrical equipment used in connection with railroads, television receiving, telephone communication which is P. U. C. regulated, radio broadcasting, elevators, and

Electrician's license or a Journeyman Electrician's License, at the time of application, shall have had a least four (4) years practical experience in the installation, alteration, and repair of wiring and electrical construction for electric light, heat, and power in or on buildings. An applicant for a Residential Electrician's License or a Special Electrician's License at the time of application, shall have had not less than two (2) years practical experience. An applicant for an Electrical Installer's License at the time of application, shall have had not less than one (1) year practical experience.

- (2) Applications: Every application for a license shall be made in writing in such form and shall furnish such information as the Electricians Examining Board may, from time to time, require. Applications must be filed at least thirty (30) days prior to the date of examinations as hereinafter provided
- (3) Examinations: Written, or written and practical examinations shall be prepared by the Electricians Examining Board and administered by it to applicants to test each applicant's knowledge of the provisions of this Code and the work covered thereby and no license shall be issued unless the applicant attains a passing mark in such examination.

(d) Geographical Requirement

No restriction based on location shall be made on applicants for Master, Residential, Journeyman, or Special Licenses who reside, or whose business is located, or who are employed by a business with its headquarters located outside the City of Bethlehem.

(e) Licenses and Fees

- (1) Application Fee: At the time of filing application for an examination, each applicant shall pay a fee. The application fee will be based on the cost of administering the exam and will be assessed at the time of the examination.

(2) License Fee: Before any license will be issued to an

employee continues to be associated with the license holder same proprietorship, partnership or corporation.

(5) License Renewal: Any license issued hereunder may be renewed without examination, provided application or renewal is accompanied by the renewal fee prescribed hereinafter. Where an applicant can show good and sufficient cause for his or her inability to renew his or her license before January 1st of any year, the Director of Community and Economic Development may within thirty (30) days thereafter, permit the issuance without examination of a license upon payment of the prescribed fee for such new license within said thirty (30) days.

(6) Renewal Fees: The fees as required herein are to be established in accordance with the requirements as per fee schedule 1703.3.

(f) Change in Registration:

(1) An application for a change of license from Master Electrician to a Residential, Special or Journeyman Electrician shall be granted without examination.

(2) An application for a change of license from Residential Electrician to Special or Journeyman Electrician shall be granted without examination.

(3) An application for a change of license from Residential, Special or Journeyman Electrician to Master Electrician shall be granted only upon compliance by the applicant with all applicable provisions of this code.

(g) Proof of Responsibility

At the time of issuance of all permits, the applicant shall furnish a certificate evidencing proof of Workmen's Compensation, Bodily Injury and Property Damage Insurance applicable to the applicant, unless such evidence is currently on file in the Bureau of Inspections.

and, upon good cause shown, including but not limited to the following: permitting unauthorized or fraudulent use of the license by another, failure to file applications for certificates performing work which fails to meet the Electrical Code, fraudulent dealing, or misrepresentation.

(i) Non-Licensed Work

No person not the holder of an appropriate license, nor a proprietorship, partnership or corporation not employing a holder of an appropriate license shall install, alter, or repair any wiring or electrical equipment for electric light, heat, or power in or on any building. No person, partnership or corporation shall cause any such work to be done by any person not the holder of such license, nor by any proprietorship, partnership or corporation not employing a holder of such license, unless employed by and working under the supervision of a person holding a license as herein defined. No person, not the holder of such license nor proprietorship, partnership or corporation not employing a holder of such license or shall falsely represent that he or it holds such license or shall use in any advertising the words "Master Electrician", "Residential Electrician" or the words "Licensed Electrician" or the words "electrical contractor" or any words of similar meaning or import on any sign, card, letterhead, or in any manner.

(j) False Statements

Any person who, with intent to defraud or deceive, knowingly makes, causes, procures to be made, or aids and assists in the making of a false statement in an application for a license, or the renewal of a license, in an application for a license, or the renewal of a license, in an application for a permit or certificate of electrical inspection and approval, in any application provided for in this title, in any proof or instrument in writing in connection therewith, or who shall in any examination hereunder, deceive or substitute, shall be in violation of this article.

(k) Reciprocity

The holder of any valid license as herein defined may, upon written request to the Electricians Examining Board, have the Director of Community and Economic Development hold said license in escrow for a period of up to five (5) years, during which time the licensee may not perform any work which would, under the provisions of this Code, require the issuance of a license. Upon proper application for renewal of the license being held in escrow, applicant shall be granted same without examination provided the Electricians Examining Board is satisfied as to the applicant's fitness to engage in the work covered by said license.

303.3.3 License Board

- (a) Membership of Board: There shall be appointed by the Mayor, with the advice and consent of City Council, an Examining Board to be known as the Electricians Examining Board, to determine the fitness of applicants for licenses and to investigate and report on all proposed suspensions or revocations of licenses, and the Mayor may, for cause shown, remove any member thereof and shall fill any vacancy therein. Said Board shall consist of two (2) Master Electricians, one (1) Residential Electrician, the City Electrical Inspector, one (1) electrical engineer fully employed by local industry and two (2) citizens-at-large. With the exception of the Master Electrician and Residential Electrician categories, Board membership shall not include representation from the regulated industry.

- (b) Terms

The terms of the members of the Electricians Examining Board shall be as follows:

- (1) Three (3) members of the Board shall be appointed originally for a term of one (1) year, two (2) members for a term of two (2) years, and two (2) members for a term of three (3) years.
- (2) As the terms of office of each of the original member of the Board expires, their successors shall be appointed for a term of three (3) years.

of the days appointed for a meeting shall fall on a legal holiday, the Board may hold special meetings as frequently as is necessary for the propriety and efficient discharge of its business. Such meetings shall be held upon forty-eight (48) hours written notice to each member of the Board, stating the purpose of such special meeting. Four (4) members of the Board shall constitute a quorum for the transaction of any and all business.

(d) Rules and Regulations

The Electricians Examining Board shall formulate its own rules and regulations for all examinations. Such rules and regulations shall become effective immediately upon the adoption by the Board and the approval of the City Council of the City of Bethlehem.

(e) Duties

The Electricians Examining Board shall investigate all applicants for licenses and shall report to the Director of Community and Economic Development the results of all examinations which it shall administer to applicants. It shall investigate and hear all written complaints against holders of such licenses and designations and report to the Director of Community and Economic Development its findings and recommendations. It shall keep minutes of its proceedings and hearings and records of its investigations and examinations of applicants for licenses.

303.3.4. Owner Performance

Any permit required by the Ordinance may be issued to a bona fide owner, occupant of a single family dwelling, which is to be occupied exclusively for living purposes, to do any work regulated by this Code on the said dwelling and on the condition that the said owner personally purchase all material and perform all labor in connection herewith.

303.3.5. Designation of Telecommunication Installation Companies

(a) Scope

This section shall regulate the business of installing telecommunications equipment including telephone systems, signaling

(b) Exemption

Public Service Corporations - This section shall not apply to P.U.C. regulated telephone and electric power companies.

(c) Application for Designation

- (1) Applications: Every application for designation shall be made in writing in such form and shall furnish such information as the Electricians Examining Board may, from time to time, require. No examination shall be required.
- (2) Proof of Responsibility: At the time of issuance of all permits, the applicant shall furnish a certificate evidencing proof of Workmen's Compensation, Bodily Injury, and Property Damage Insurance applicable to the applicant unless such evidence is currently on file in the Bureau of Inspections.
- (3) Geographical Requirement: No restriction based on location shall be made on applicants who reside, or whose business is located with its headquarters located outside of the City of Bethlehem.

(d) Designation and Fees

(1) Designation Fees

Before any designation will be issued to an applicant's business, the applicant shall pay a fee. The fee as required herein is to be established in accordance with the requirements of the Fee Schedule Section 404.2.

(2) Designation Term

Each designation shall be issued for the calendar year during which it is issued and the full fee shall be payable irrespective of the date of issue.

(3) Transferability

application for permits, performing work which fails to meet the Electrical Code and other applicable codes, fraudulent dealing, or misrepresentation.

(5) False Statements

Any person who, with intent to defraud or deceive, knowingly makes, causes, procures to be made, or aids and assists in the making of a false statement in an application for a designation, or the renewal of a designation, in an application for a permit or certificate of inspection and approval, in any application provided for in this title, in any proof or instrument in writing in connection therewith, or who shall in any application, hereunder, deceive or substitute, shall be in violation of this article.

(e) Permits

Permits shall be required for all permanent installation of telecommunication equipment, except in one (1) and two (2) family dwellings. Permits shall only be issued to designated companies or homeowners.

(f) Non-Permitted Work

No person, partnership or corporation shall cause any such work to be done by non-designated companies.

Insert the following Fee Schedule in Section 404.2

FEE SCHEDULE.

RESIDENTIAL:

Fee for installation of Electrical Systems in a new single family dwelling, the fee per dwelling unit will be:

\$100.00

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Minor Alterations and Additions or Rewire Entire House
One (1) to forty (40) devises, including service.

75.00

*The above fees include 2 inspections, additional inspections
will be charged at \$30.00 per inspection.*

Heating, Air Conditioners, Ranges, Water Heaters and Similar Equipment

Per single unit	\$ 40.00
Each additional unit	10.00

Swimming Pools - Private

Above ground pool.	40.00
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*The above fees include 1 inspection, additional inspections for
violations will be charged at \$30.00 per inspection.*

Permanent pool.	65.00
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*The above fees include 2 inspections, additional inspections
will be charged at \$30.00 per inspection.*

Public Pools, & Spas.

Three(3)year inspection - State required	100.00
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Non-Residential Work

Fee for installation of Electrical Systems in all other use groups, buildings new and remodeled, including Emergency Alarm Device, Smoke detectors, Computer wiring, or Phone Systems is as follows: 1% up to \$30,000.00 cost of work plus .5% of cost of work over \$30,000.00 with the minimum fee of \$75.00

Yearly Permit Fees - Large scale industrial and Institutional

Large-scale industries and institutions that have a Master Electrician on their staff shall pay a yearly fee of \$250.00. This fee shall cover all of the maintenance work performed in that year. All new construction shall be covered under the fee schedule in Section 1703.03.

Nursing Homes

\$50.00 Journeyman Electrician License;

\$40.00 Special Electrician License;

\$40.00 Electrician Appliance Installer License;

\$40.00 Telecommunications Installer (no test required).

Delete Section 404.5 Refunds and replace with the following:

404.5 Refunds

Twenty percent (20%) of the total permit fee will be retained by the City of Bethlehem if the permit is revoked, withdrawn or expires.

1201.1.2 Amendments to NFPA 70

Article 250.50 delete paragraph four (4) and substitute the following:

The unspliced grounding electrode conductor shall be run to the street side of the main water shutoff valve with a jumper on each side of the water meter.

Delete Article 250.62 and replace with the following:

250.62 Grounding conductor Material

The material for grounding conductors shall be copper.

Delete (PM) 1203.1.1 and replace with the following:

1203.1.1 (PM) 1203.1.1 Service.

The size and usage of appliances and equipment shall serve as a basis for determining the need for additional facilities in accordance with this code. Dwelling units shall be served by a three-wire, 120 /240 volt, single-phase electrical service having a rating of not less than 100 amperes.

Add the following sentence to section (PM) 1203.1.4.

The required kitchen counter top receptacle outlets shall be GFCI protected and 20 amperes.

Delete section 1003.1 penalties and replace with the following:

1003.1 Penalties

Any person who shall violate a provision of this Ordinance or shall fail to comply with any of the requirements thereof, or shall be in violation of approved plan or directive of the Electrical Inspector or of a permit issued under the provisions of the Ordinance shall, upon conviction thereof before the District Magistrate of the City of Bethlehem, Pennsylvania, be liable to the following penalties:

- (a) First violation - A fine of \$200.00 or thirty days imprisonment, or both;
- (b) Second violation - A fine of \$500.00 or sixty days imprisonment, or both;
- (c) Third and each subsequent violation - A fine of \$1,000.00 or ninety days imprisonment, or both.

Each day that a violation continues shall be deemed a separate offense.

Delete Chapter 11 and replace with Ordinance 3281.

That nothing in this Ordinance hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquitted or liability incurred, or any cause or causes of action required or existing under any act or Ordinance hereby repealed as cited in this Ordinance; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this Ordinance.

(Ord. 4147 - Passed 10/1/02)